

## ABSTRACT

The present invention is relate to watermark information embedding apparatus and method for the same, watermark information detecting apparatus and method for the same, and method of containing  
5 watermark document. A document image generator (101) generates a document image according to document data (105). A watermark image generator (102) generates a watermark image. The watermark information (106) is denoted with dot pattern, and the dot pattern within the outline of the watermark information are of special value. A synthesizer (103) overlaps  
10 document image generated from the document image generator (101) and the watermark image generated from the watermark image generator (102) so as to generate a containing watermark document image.